

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Canceled).

Claim 2 (Currently Amended): A method of allocating radio resources, in a base station, to the base station and a mobile station, comprising ~~the steps of:~~

obtaining a ratio between traffic of an uplink and traffic of a downlink;

allocating the radio resources to the uplink and the downlink for the mobile station ~~according to the obtained ratio; and~~

dividing time into a plurality of time periods corresponding to at least one of days of a week and hours of a day, and allocating empirical data regarding the traffic of the uplink and the traffic of the downlink to the respective time periods, wherein said ~~step of obtaining~~ [[a]] ~~the ratio obtains the ratio based on the empirical data corresponding to a present time period and a current ratio between traffic of the uplink and traffic of the downlink based on current traffic~~ includes;

obtaining a current ratio between the traffic of the uplink and the traffic of the downlink based on current traffic; and

obtaining a weighted average of the empirical data corresponding to a present time period and the current ratio by weighting the empirical data and the current ratio with respective weighting factors that are determined on a base-station specific basis depending on volatility of traffic, wherein said allocating the radio resources allocates the radio resources to the uplink and the downlink according to the weighted average.

Claims 3-4 (Cancelled).

Claim 5 (Currently Amended): The method as claimed in claim 2, further comprising ~~a step of~~ transmitting, to the mobile station, information about the radio resources with respect to at least one of the uplink and the downlink.

Claim 6 (Currently Amended): The method as claimed in claim 2, further comprising ~~a step of~~ allocating transmission power according to communication quality required for the uplink and the downlink.

Claim 7 (Cancelled).

Claim 8 (Currently Amended): A base station apparatus which communicates with a mobile station apparatus, comprising:

a computation unit which obtains a ratio between traffic of an uplink and traffic of a downlink; and

an allocation unit which allocates ~~[[the]]~~ radio resources to the uplink and the downlink according to the ratio, wherein time is divided into a plurality of time periods corresponding to at least one of days of a week and hours of a day, and empirical data regarding the traffic of the uplink and the traffic of the downlink are allocated to the respective time periods, ~~and wherein~~ said computation unit obtains ~~the ratio based on the empirical data corresponding to a present time period and a current ratio between traffic of the uplink and traffic of the downlink based on current traffic~~ a current ratio between the traffic of the uplink and the traffic of the downlink based on current traffic, and obtains a weighted average of the empirical data corresponding to a present time period and the current ratio by weighting the empirical data and the current ratio with respective weighting factors that are determined on a base-station-specific basis depending on volatility of traffic, and

wherein said allocation unit allocates the radio resources to the uplink and the downlink according to the weighted average.

Claims 9-10 (Cancelled).

Claim 11 (Previously Presented): The base station apparatus method as claimed in claim 8, further comprising a reporting control unit which transmits, to the mobile station, information about the radio resources with respect to at least one of the uplink and the downlink.

Claim 12 (Previously Presented): The base station apparatus method as claimed in claim 8, wherein the allocation unit allocates transmission power according to communication quality required for the uplink and the downlink.